

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the traffic signal and lane assignment at MD 4 and Chaneyville Road in Calvert County.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA six-phase, full-actuated mode, with the side street split phasing to be provided for the Chaneyville eastbound and westbound approach.

NOTES

1. For final pavement markings, refer to the pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards.
2. The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable.
3. All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
4. For Montgomery County projects, the contractor shall be responsible for delivering the video interface equipment to the Montgomery County Signal Shop. County forces will complete the retrofit work in the existing cabinet.
5. Disconnecting and splicing of interconnect cable shall be performed by Shop Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. Contact Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
6. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
7. For developer jobs, Note: Controller and cabinet shall be purchased from Econolite and delivered to S.H.A. Signal Shop for wiring and testing a minimum of three (3) weeks prior to installation. Contact Mr. Ed Rodenhizer (410) 787-7650 to coordinate this effort.
8. The contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.

CONTACTS

DISTRICT

GREG WELKER  
DISTRICT ENGINEER  
410-841-1001

KIMBERLY TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-841-1019

ACTING JOE HORTY  
DISTRICT UTILITY ENGINEER  
410-841-1040

JAMES FOLDEN  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
410-841-1031

JOHN S. MAYES  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-841-1013

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
410-787-7670

MS. DARLENE EIDE  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

| ITEM NO. | QUANTITY | DESCRIPTION                                      |
|----------|----------|--|
| 9086     | 1 EA     | VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS |
| 9571     | 7.5 SF   | SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN      |

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

| ITEM NO. | QUANTITY | DESCRIPTION                                      |
|----------|----------|--|
| 1001     | 1 EA     | MAINTENANCE OF TRAFFIC PER ASSIGNMENT            |
| 8001     | 19 EA    | 12 INCH (R, Y, G) LED SIGNAL HEAD SECTION        |
| 8007     | 3 EA     | 8 INCH LED SIGNAL (R-Y-G) HEAD SECTION           |
| 8015     | 18 EA    | LED SIGNAL HEAD MODULES (ANY SIZE)               |
| 8017     | 1 EA     | REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT) |
| 8047     | 7.5 SF   | INSTALL OVERHEAD SIGN                            |
| 8048     | 4 EA     | VIDEO DETECTION CAMERA & CABLE UP TO 500 FT      |
| 8058     | 255 LF   | ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)      |
| 8059     | 745 LF   | ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)      |

DISTRICT WILL INSTALL PAVEMENT MARKINGS. CONTACT MR. RUSSELL SWANN 410-535-1748

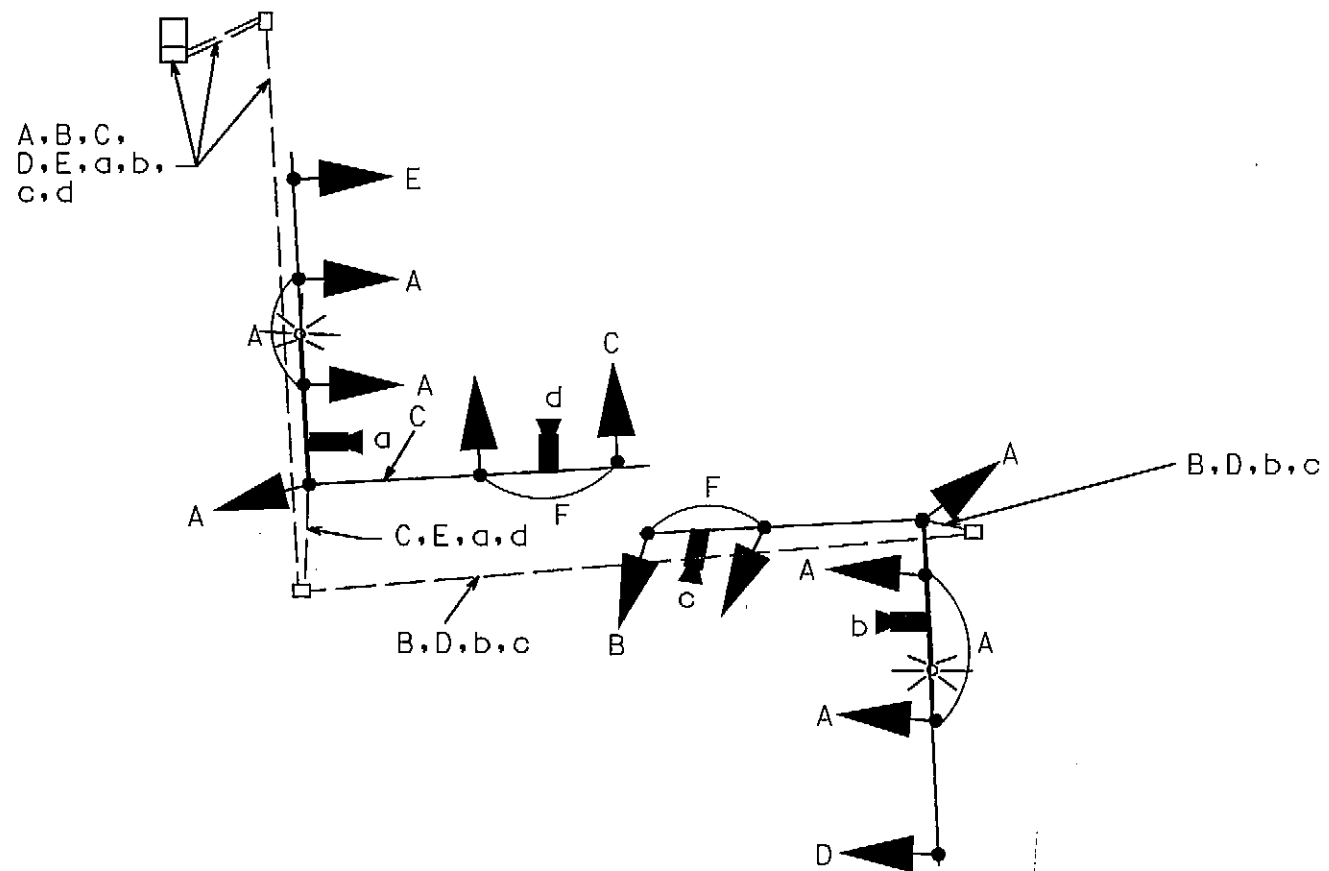
PHASE CHART

|                    | 1   | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |   |
|--------------------|---|------|------|------|------|------|------|------|------|------|---|
| PHASE 1 & 5        | ◀G-R  | ◀G-R | R    | ◀G-R | ◀G-R | R    | R    | R    | R    | R    | ↑ |
| 1 & 5 CHANGE       | THE CONTROLLER MAY SKIP TO PHASES 1 & 6, OR 2 & 5, OR 2 & 6 |      |      |      |      |      |      |      |      |      | ↔ |
| PHASE 1 & 6        | ◀G-G  | ◀G-G | G    | R    | R    | R    | R    | R    | R    | R    | ↔ |
| 1 CHANGE           | ◀Y-G  | ◀Y-G | G    | R    | R    | R    | R    | R    | R    | R    | ↔ |
| PHASE 2 & 5        | R   | R    | R    | ◀G-G | ◀G-G | G    | R    | R    | R    | R    | ↑ |
| 5 CHANGE           | R   | R    | R    | ◀Y-G | ◀Y-G | G    | R    | R    | R    | R    | ↑ |
| PHASE 2 & 6        | G   | G    | G    | G    | G    | G    | R    | R    | R    | R    | ↔ |
| 2 & 6 CHANGE       | Y   | Y    | Y    | Y    | Y    | Y    | R    | R    | R    | R    | ↔ |
| PHASE 3            | R   | R    | R    | R    | R    | R    | R    | R    | ◀G-G | ◀G-G | ↓ |
| PHASE 3 CHANGE     | R   | R    | R    | R    | R    | R    | R    | R    | Y    | Y    | ↓ |
| PHASE 4            | R   | R    | R    | R    | R    | R    | ◀G-G | ◀G-G | R    | R    | ↑ |
| PHASE 4 CHANGE     | R   | R    | R    | R    | R    | R    | Y    | Y    | R    | R    | ↑ |
| FLASHING OPERATION | FL/Y  | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | ↔ |

WIRING DIAGRAM

LEGEND

A = USE EXISTING CABLE  
B,C = 7 CONDUCTOR CABLE (NO. 14 AWG)  
D,E,F = 5-CONDUCTOR CABLE (NO. 14 AWG)  
a,b,c,d = VIDEO DETECTION CABLE



TOD NO: XX448-12  
SHA NO: CA372A51/C51  
MD 4@ CHANEYVILLE RD



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 4 AT CHANEYVILLE RD  
TRAFFIC SIGNAL MODIFICATION

G1

SCALE 1" = 20' ADVERTISED DATE 08/08/2008 CONTRACT NO. XX4485185

DESIGNED BY JANAY SMITH COUNTY CALVERT  
DRAWN BY JANAY SMITH LOGMILE 04000430.22  
CHECKED BY DERRICK DICKERSON TMS J-151  
F.A.P. NO. AC-STPG-NHG-00A(268)E TOD NO.

TS NO. 2456-G1 DRAWING 56 2 OF 2 SHEET NO. 2 OF 2